: 350 SKIDTUBE EXTRUSION (BENT)

Date:

Tuesday, 30/09/2008 8:54:10 AM

User:

Julie Lecoca

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 42342

Estimate Number

: 10997

P.O. Number

This Issue Prsht Rev.

: 30/09/2008

: NC

: // First Issue

: 41122 **Previous Run**

Written By

Checked & Approved By

Comment

Type

S.O. No. :

: Est. B02.11.28 Reformat KJ

: MACHINED PARTS

Material **Due Date**

Drawing Name

Part Number

Drawing Number

Project Number

Drawing Revision

: 15/10/2008

D1/E/

N/A

: D26003BENT

: D2600 D1/D2750 E/F

Qty:

20 Um: Each

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

Extrusion Round 3" 350

1.0

D26003120

Comment: Qty.:

20.0000 Each(s) 1.0000 Each(s)/Unit Total:

Extrusion Bent

Pick:

Qty

Part Number D2600-3

Description

Extrusion

RT 08-10-01

2.0

BENDING



Comment: BENDING MACHINE

Deburr one end of extrusion Drill #30 pilot holes using DT8689 Open holes to 5/16" and deburr

Bend using CNC bending machine as per program 2750.C and Folio FT003.

Use 5/16 locator pin on buggy "A".

Check fit to Jig DT8150

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

Inspect work to Step 6Ensure fit to Jig DT8150

4.0

3.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: Skid

08-10-01

ET 08-1001

Dart Aerospace Ltd

W/O:		WORK ORDER CH	IANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
1							
			4				
						=	
Part No	•	PAR #: Fault Category:	NCR: Yes	No DO	۸۰	Date:	

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
	STEP	Description of NC		Corrective Action Section B		Verification	Anneval	Annuarial
DATE		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
Stole		one partitute scrap		Scrap and Destroy				
SANT.	4	Tuke good to be		and rentar Que		Ē		
100	2.0	incoming inches		34 B37756				08/10/02
	-			ostrolor				

NOTE: Date & initial all entries

Date: , User: Tuesday, 30/09/2008 8:54:10 AM

Julie Lecocq

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 350 SKIDTUBE EXTRUSION (BENT)

Job Number: 42342

Part Number: D26003BENT

Job Number:



Seq. #:

Machine Or Operation:

Description:

5.0

QC21

FINAL INSPECTION/W/O RELEASE



08/10/02 4

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



MF 08.10-02

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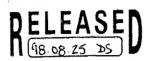
W/O:	-		W	ORK ORDER CHANG	GES					
DATE	STEP	PRO	OCEDURE CHA	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
1										- - - - -
Part No		PAR #:	Fault Cate	egory:	NCR	: Yes	No DQ	A:	Date: _	
	R	esolution:	Disposition	on:	QA:	N/C CI	osed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORM	ANCE	(NCR	1)			
DATE	STEP	Description of NC	1		tion B	Sign &	Verifi	cation	Approval	Approval
JAIL	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng		Date	Sect	ion C	Chief Eng	QC Inspector
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NOTE: Date & initial all entries





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	Ø			HAWKESBURY, ONTARIO, CANADA
	CHECK	ED _	APPROVED	DRAWING NO. REV. D
	X	E	1 4/3	D2600 SHEET 1 OF 5
	DATE	<u> </u>		TITLE SCALE
•	98.0	8.20	Q	EXTRUSION 1:1
	Α		97.01.21	NEW ISSUE
	В		97.09.09	CHANGE MATERIAL SPEC.
	С		98.04.16	ADD D2600-3, UPDATE D2600-1 WIDTH, ADD DIE NO.
	D		98.08.20	INCREASE MIN. UTS TO 40 KSI
	1 (01.04.17	ADD PART NUMBERS & DIE NUMBERS &



GENERAL NOTES

1. MATERIAL: 6061-T6 (QQ-A-200/8)

MINIMUM YIELD TENSILE STRENGTH = 35 ksi MINIMUM ULTIMATE TENSILE STRENGTH = 40 ksi MINIMUM ELONGATION = 8 %

A SAMPLE FROM EACH BATCH WILL BE PULL TESTED TO ASTM STANDARD B221 BY AN APPROVED TESTING FACILITY TO ENSURE THAT THE BATCH MEETS THE ABOVE MINIMUM MECHANICAL PROPERTIES.

- 2. BREAK ALL SHARP CORNERS 0.010 MAX.
- 3. NO TOOLING MARKS.
- 4. TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 5. ALL DIMENSIONS ARE IN INCHES.

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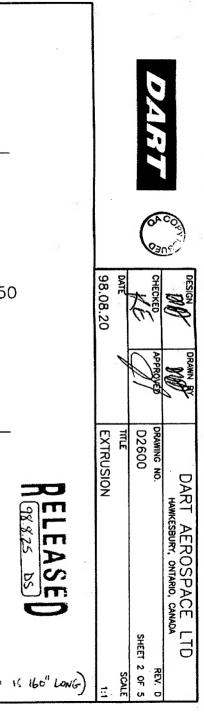
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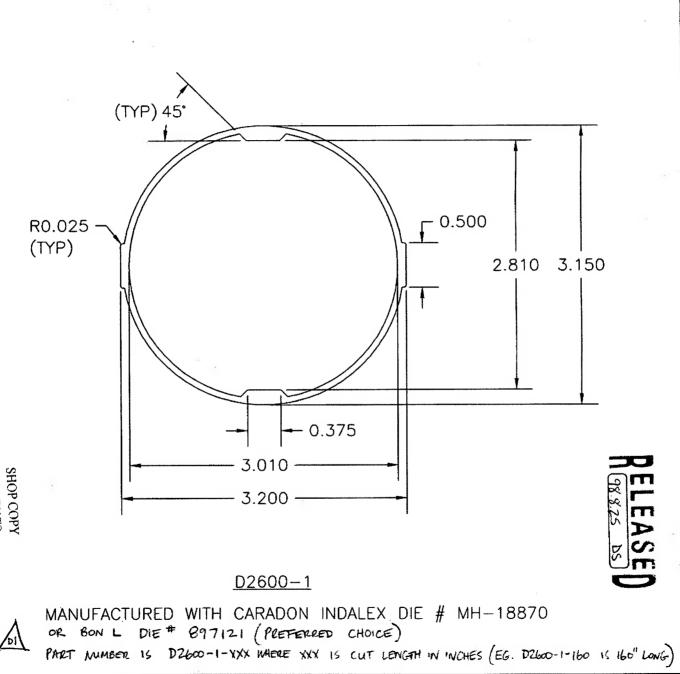
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WORK ORDER





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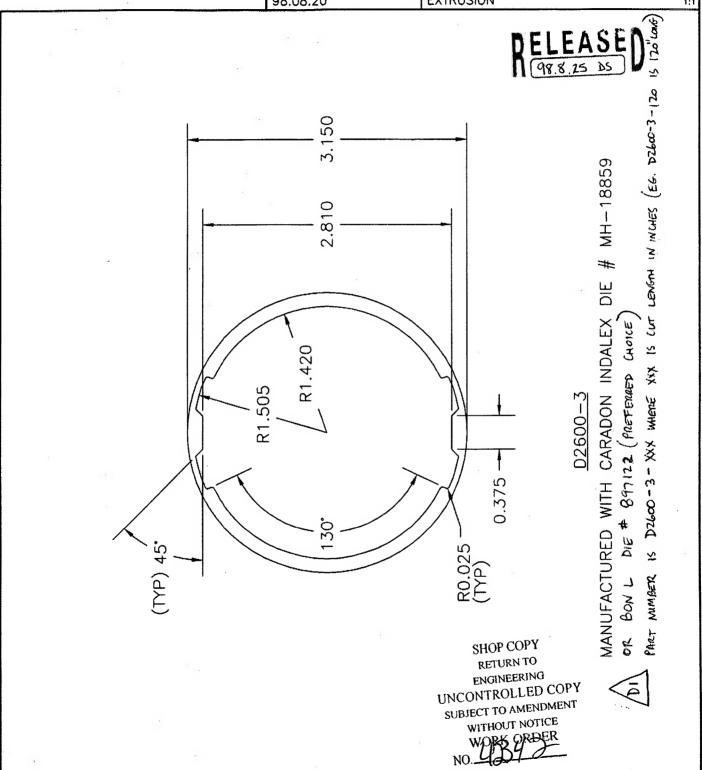
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KE	H	D2600	SHEET 3 OF 5
DATE		TITLE	SCALE
98.08.20		EXTRUSION	1:1



98.08.20

EXTRUSION

45° (TYP)

R0.150 (TYP) 2.810 2.670 - 0.070 R0.025 (TYP) 0.375

R1.505 -

D2600-5

MANUFACTURED WITH CARADON INDALEX DIE # MS-18871

PART NUMBER IS DZ600-5-XXX WHERE XXX IS CUT LENGTH IN INCHES (EG. D2600-5-108 15 108" LONE)

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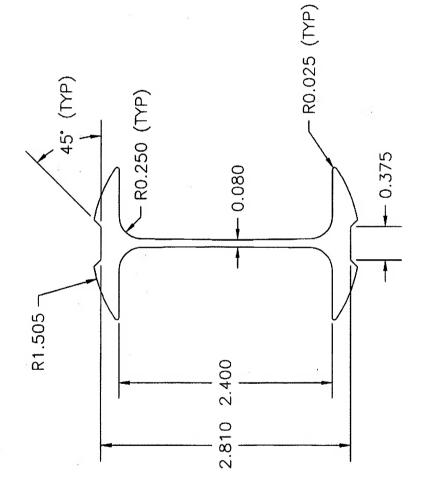
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	FE	193	D2600	SHEET 5 OF 5
	DATE		TITLE	SCALE
-	98.08.20	4	EXTRUSION	1:1

RELEASE DE PRESENTATION OF THE PRESENTATION OF



MANUFACTURED WITH CARADON INDALEX DIE # MS-18872
PART NUMBER IS D2600-7-XXX WHERE XXX IS CUT LENGTH IN INCHES

(EG. 12600-7-125 IS 125" LONG)

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WORK CESTAGE

*.	QTY -041	QTY -042	QTY -043	QTY -044	PART NUMBER	DESCRIPTION
	X				D2750-041	350 SKIDTUBE ASSEMBLY, LH
		Х		11.0	D2750-042	350 SKIDTUBE ASSEMBLY, RH
			X		D2750-043	350 SKIDTUBE ASSEMBLY, LH
				Х	D2750-044	350 SKIDTUBE ASSEMBLY, RH
	1	1	1	1	D2739	WEB
	8	8	8	8	D2743	SPACER
	1	1	1	1	D2744	CAP
	8	8	8	8	D2745	BUSHING
	1				D2750-1	SKIDTUBE WELDMENT, LH
		1			D2750-2	SKIDTUBE WELDMENT, RH
			1		D2750-3	SKIDTUBE WELDMENT, LH
				1	D2750-4	SKIDTUBE WELDMENT, RH
	1		1		D3488-041	BLADE FITTING, LH
		1		1	D3488-042	BLADE FITTING, RH
	4	4	4	4	D3490-1	SPACER
	4	4			D3490-3	SPACER
			4	4	D3490-5	SPACER
	8	8	8	8	D3492-041	PLUG ASSEMBLY
	8	8			D3492-043	PLUG ASSEMBLY
			8	8	D3492-045	PLUG ASSEMBLY
	1	1	1	1	D3535-25	WEARSHOE
	1	1	1	1	D3536-25	GASKET
Æ	3	3	3	3	D3537-1	WEARPAD
<u>د</u>	8	8	8	8	D3631-1	WASHER
	1	1	1	1	D3791-1	WEARPLATE
	1	1	1	1	D3793-1	WEARSHOE
<u> </u>	1	1	1	1	D3793-3	WEARSHOE
Æ i	1	1	1	1	D3794-1	GASKET
	1	1	1	1	D3794-3	GASKET
_						
Æ—	38	38	38	38	ALS4-1032-225	INSERT (OR ALS7-1032-225, AKS4-1032-225, AELS-1032-225)
	34	34	34	34	AN3C5A	BOLT
_	4	4	4	4	AN3C6A	BOLT
	4	4	4	4	AN6C44A	BOLT
	1	1	1	1	AN8C35A	BOLT
Δ [38	38	38	38	AN960C10L	WASHER
<u>/F\</u>	1	1	1	1	AN960C816L	WASHER
_	4	4	4	4	MS21043-6	NUT
	1	1	1	1	MS21083C8	NUT

GENERAL NOTES:

8

MATERIAL: MAKE D2750-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).

4 NAS1515H3L

FINISH: ACID ETCH, ALONDE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB. POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3 BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL). TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

WASHER

UNITS: INCHES UNLESS OTHERWISE NOTED BREAK SHARP EDGES: N/A

4 4

IDENTIFICATION: N/A

WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS

WELD PER DART QSI 004

INSTALL ALS4-1032-225 INSERTS AFTER FINISH AS INDICATED. DRILL 'F' SIZE HOLES (Ø 0.297) FOR WEARSHOE INSERTS FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:

MINIMUM YIELD TENSILE STRENGTH = 35 KSI

= 35 KSI

MINIMUM VIELD TENSILE STRENGTH = 35 KSI
MINIMUM ULTIMATE TENSILE STRENGTH = 38 KSI
SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS.
COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF
POWDER COATING WITH MEK DEGREASER.
SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL

PAGE AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL

SPACER AND PLUG INSTALLED SAME AS SECTION AP-AP EXCEPT HORIZONTAL

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Atten

INCORPORATE DSI 9413; QTY (3) D3537-1 WAS QTY (5) (ZN C8-1); D3791-1/-3 REPLACES D3535-13/-35 (ZN C8-1); D3794-1/-3 REPLACES D3536-13/-35 (ZN B8-1); ADD D3791-1 (ZN C8-1); WEARSHOE HOLES UNDER FWD/AFT SADDLE REMOVED (8 PL), WEARSHOE HARDWARE QTY UPDATED (ZN B8-1); D3488-041/-042 HARDWARE UPDATED (ZN C1-8, 9, 10, 11); ADD NOTE 12 AND 13 (ZN A6-1); REASON: REF. NCR 08-043 08.07.16 CHANGE TO STAINLESS STEEL WEARPLATES; ADD RUBBER GASKETS; CHANGE INSERTS; ADD D3631-1; REMOVE QTY (38) NAS1515H31; REMOVE QTY (10) NAS1515HBL; REMOVE D2741, QTY (2) AN960C816; REMOVE QTY (2) MS21083C8 07.05.17 ADD HOLES AND SPACERS FOR APICAL FLOATS; INCORPORATE DEO 9133/9157 06.01.05 ADD D2750-3/D2750-4; INCORPORATE D2738 AND D2740 CP 98.11.18 CHANGE MS24694-S293 TO AN8-16A CP 98.09.01 Α **NEW ISSUE** DS 98.04.16 REV. DESCRIPTION DATE DESIGN DART AEROSPACE USA, INC. PORT HADLOCK, WA

DRAWN DRAWING NO. CHECKED REV. F D2750 MFG. APPR. SHEET 1 OF 11 APPROVED **SCALE** 350 SKIDTUBE ASSEMBLY DE APPR. NTS

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NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT DATE 08.07.16

